HiView Digital Video Recorder
16 Channel Pentabrid 1080N/720P 1U 1HDD DVR
XVR16-I

SMD Plus	Smart Dual Illuminators	One-click Arming/Disarming	AI Coding	Smart H.265+	Long-distance Transmission

Audio over Coax	1080p HDMI/VGA
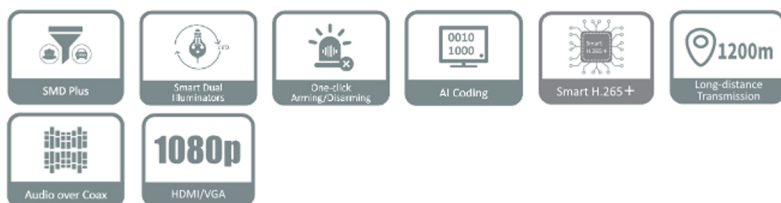
Key Feature

· H.265+/H.265 dual-stream video compression.
· Supports Full channel AI-Coding.
· Supports HDCVI/AHD/TVI/CVBS/IP video inputs.
· Max 18 channels IP camera inputs, each channel up to 2MP; Max
· 20 Mbps incoming bandwidth.
· Long transmission distance over coax cable.
· Up to 4 channels video stream (analog channel) SMD PI

AI Coding

Compared with H.265/H.264, AI coding can reduce more than 50% bit rate and storage requirements without loss of decoding compatibility, providing clear human and vehicle details.

Smart H.265+

Smart H.265+ Codec reduces bit rate and storage requirements by up to 90%, outranking standard H.264 video compression and eliminating the need to invest in a new camera.

Long-distance Transmission

The HDCVI system supports long distance transmission over coaxial cable and UTP, max. 700 m for 4K/4MP, 800 m for 1080P and 1200 m for 720p.

Audio over Coax

The integrated design can reduce wiring troubles which makes it much more cost-effective and convenient for installation.

Technical Specification

System

Main Processor	Industrial-grade processor
Operating System	Embedded Linux
Operating Interface	Web; Local GUI

SMD Plus

SMD Plus by Recorder	8-channel: Secondary filtering for human and motor vehicle , reducing false alarms caused by leaves, rain and lighting condition change

Audio and Video

Analog Camera Input	16 channels, BNC: adaptive access by default; HDCVI, AHD, TVI and CVBS access can be configured.
Camera Input	1. CVI: 1080p@ 25/30 fps, 720p@ 25/30 fps 2. TVI: 1080p@ 25/30 fps, 720p@ 25/30 fps 3. AHD: 1080p@ 25/30 fps, 720p@ 25/30 fps 4. CVBS: PAL/NTSC
IP Camera Input	Up to 18 channels of IPC access 2 IP channels by default + 16 channels (analog channels are converted to IP channels) incoming bandwidth: 64 Mbps, recording bandwidth: 64 Mbps and outgoing bandwidth: 64 Mbps *After IP channels are added beyond the existing channels, the AI Function (SMD) will be disabled.
Encoding Capacity	Main Stream: the 1st channel 1080N/720p (1 fps–25/30 fps), others 1080N/720p (1 fps–15 fps); 960H/D1/CIF(1 fps–25/30 fps) Sub stream: CIF (1 fps–7 fps)
Dual-stream	Yes
Video Bit Rate	32 kbps–6144 kbps
Audio Sampling	8 kHz, 16 bit
Audio Bit Rate	64 kbps
Video Output	1 HDMI, 1 VGA HDMI/VGA: 1920 × 1080, 1280 × 1024, 1280 × 720
Multi-screen Display	1/4/8/9/16
Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Samsung

Compression Standard

Video Compression	AI Coding; H.265+; H.265; H.264+; H.264
Audio Compression	G.711a; G.711u; PCM

Network

Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; P2P
Mobile Phone Access	iOS, Android
Interoperability	ONVIF 21.06; CGI Conformant
Browser	Chrome IE9 or later Firefox
Network Mode	Single-address mode

Recording Playback

Record Mode	General, motion detection, alarm;
Recording Playback	1/4/9/16
Backup Method	USB device and network
Playback Mode	Instant playback, general playback, event playback, tag playback

Alarm

General Alarm	Motion detection, video loss, tampering
Anomaly Alarm	No disk, disk error, low space, offline, ip conflict, MAC conflict
Alarm Linkage	Record, snapshot (panoramic), IPC external alarm output, access controller, voice prompt, buzzer, log, preset, email

Ports

Audio Input	1-channel RCA 16-channel BNC (Coaxial Audio)
Audio Output	1-channel RCA
Two-way Talk	Yes (share the same audio input with the first channel)
HDD Interface	1 SATA port, up to 16 TB. The maximum HDD capacity varies with environment temperature.
USB	2 USB ports (USB 2.0)
HDMI	1
VGA	1
Network Port	1 (10/100 Mbps Ethernet port, RJ-45)

General

|	
Power Supply	12 VDC, 2 A
Power Consumption	<10 W
Net Weight	0.89 kg (1.96 lb)
Gross Weight	1.42 kg (3.13 lb)
Product Dimensions	260.0 mm × 231.4 mm × 47.6 mm (10.24" × 9.11" × 1.87") (W × D × H)
Packaging Dimensions	333.0 mm × 315.0 mm × 89.0 mm (13.11" × 12.40" × 3.50") (W × D × H)
Operating Temperature	−10 ⁰C to +55 ⁰C (+14 ⁰F to +131 ⁰F)
Operating Humidity	0%–90% (RH)
Installation	Desktop
Certifications	FCC: Part 15 Subpart B CE: CE-LVD: EN 60950-1/IEC 60950-1 CE-EMC: EN 61000-3-2; EN 61000-3-3; EN 55032; EN50130; EN 55024

Ordering Information

Type	Model	Description
16 Channels WizSense XVR	DH-XVR1B16-I	16 Channels Penta-brid 1080N/720p Compact 1U WizSense Digital Video Recorder

Dimensions (mm[inch])

260.0 [10.24]

47.6 [1.87]

231.4 [9.11]
220.7 [8.69]
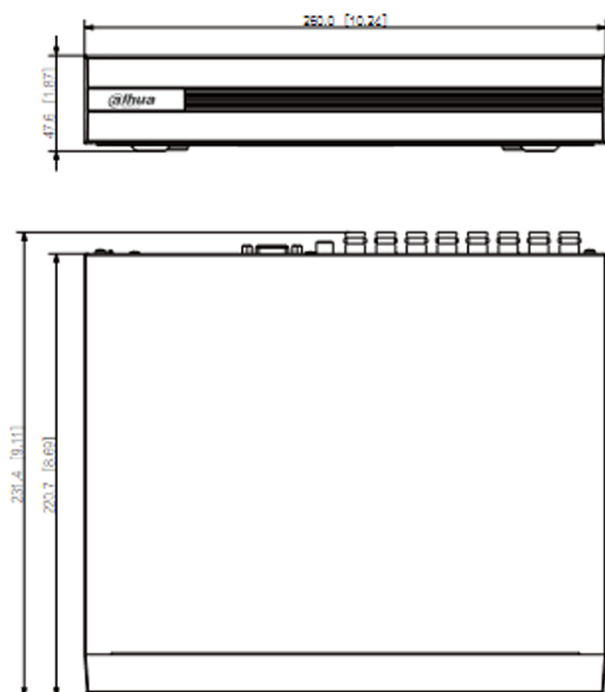
Panels
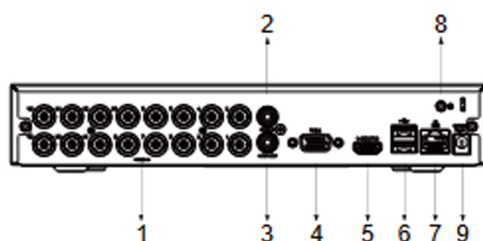
1 VIDEO IN   2 AUDIO IN, RCA Connector
3 AUDIO OUT, RCA Connector   4 VGA Port
5 HDMI Port   6 USB Ports
7 Network Port   8 Ground
9 Power Input